

DARIUS A. PADUCH, M.D., PH.D.

HOME ADDRESS



ACADEMIC AFFILIATION

The Smith Institute for Urology/
Northwell Health
1000 Northern Blvd, Ste 120
Great Neck, NY 11021

EDUCATION:

- B.S., Biochemistry, *Copernicus Gymnasium, Kolobrzeg, Poland*
9/1982 – 6/1986
- M.D. Degree, *Medical Academy of Lodz, Poland*,
10/1986 – 4/1993, 10/1990 – 4/1993 MD/PhD Program
- Ph.D. in Applied Medical Sciences – Molecular Microbiology, *Medical Academy of Lodz, Poland, Polish Mother's Institute for Medical Research, Lodz, Poland*
10/1990 – 6/2002
- Residency in Urology, *Oregon Health and Science University, Portland, OR*
7/1996 – 6/2002
- Fellowship in Male Infertility and Andrology, *Weill Medical College of Cornell University, New York, NY*
7/2003-6/2005
- Postdoctoral Fellowship in Molecular Reproductive Biology, *Center for Biomedical Research, Population Council, New York, NY*
7/2003 – 6/2005

IMMIGRATION STATUS:

Citizen of the USA

MILITARY EXPERIENCE:

Captain, United States Army Reserves, Medical Core, honorably discharged

WORK EXPERIENCE:

- Staff Physician, Preventive Adolescent Industrial Medicine, *Engineering and Builders Vocational School and College no 1., Pabianice, Lodz, Poland* 8/1/1993 to 6/1995
- Instructor in Pediatric Surgery and Urology, Co-Director Center for Adolescent Andrology, Staff Scientist, *Dept. of Pediatric Surgery, Polish Mother's Memorial Hospital, Lodz, Poland*
7/1993 – 9/1995
- Intern in Internal Medicine, *Mercy Catholic Medical Center, Darby, PA*
10/1995 – 6/1996
- Resident in Urology, *Oregon Health and Science University, Portland, OR*
7/1996 – 6/2002
- Assistant Professor of Surgery, Director of Urogynecology and Urodynamics, *Div. of Urology, Oregon Health and Science University, Portland, OR*
7/2002 – 6/2003

- Instructor in Urology, Postdoctoral Fellow, *Dept. of Urology, Weill Medical College of Cornell University, New York, NY*
7/2003 – 6/2005
- Assistant Professor of Urology and Reproductive Medicine, *Brady Urologic Health Center, Cornell Institute for Reproductive Medicine, New York, NY*
7/2005 – 6/2012
- Staff Scientist, Center for Biomedical Research, *Population Council, New York, NY*
7/2005-present
- New York State Department of Health Certified Genetic, Endocrinology, Microbiology, and Andrology Laboratory Director, *Department of Urology and Reproductive Medicine, Weill Cornell Medical College, New York, NY*
8/2007-present
- Research Director of Fellowship Program in Male Infertility and Andrology, *Department of Urology and Reproductive Medicine, Weill Cornell Medical College, New York, NY*
7/2008-11/2019
- President and Chief Scientist, *Consulting Research Services, Inc, North Bergen, NJ*
3/2009-present
- Director and Student Advisor of Mimi Suico Students Summer Research Program, *Weill Cornell Medical College, New York, NY*
7/2009-11/2019
- Associate Professor of Urology and Reproductive Medicine, *Brady Urologic Health Center, Cornell Institute for Reproductive Medicine, Weill Cornell Medical College, New York, NY*
7/2012-11/2019
- Director Sexual Health and Medicine, *Brady Urologic Health Center, Cornell Institute for Reproductive Medicine, Weill Cornell Medical College, New York, NY*
10/2012-11/2019
- Herbert Fisk Johnson Endowed Associate Professor of Urology and Reproductive Medicine, *Brady Urologic Health Center, Cornell Institute for Reproductive Medicine, Weill Cornell Medical College, New York, NY*
7/2012-3/2019
- Chair of Weill Cornell Medical College LGBT Curriculum Committee, *Weill Cornell Medical College, New York, NY*
4/2015-3/2018
- Director of Penile Transplantation Program, *Dept of Urology, Weill Cornell Medicine, New York, NY*
7/2016-3/2020
- Associate Professor of Urology, Director of Male Infertility and Microsurgery NSUH, *Smith Institute for Urology, Northwell Health, North Shore University Hospital, Great Neck, NY*
3/2020 - current

ADDITIONAL EXPERIENCE AND QUALIFICATIONS:

A. CLINICAL:

- Trained in and practicing both pediatric and adult reproductive urology
- Expert in male infertility, fertility preservation, erectile dysfunction, sexual health and medicine of men and women, andrology, testosterone replacement, reproductive genetics, post-prostatectomy sexual dysfunction comprehensive management
- Excellent surgical skills in all aspects of microsurgery (>3000 cases performed): vasovasostomy, vasoepididymostomy, microsurgical testicular sperm extraction, epididymal sperm aspiration, vasectomy, transurethral resection of ejaculatory ducts, seminal vesicles aspiration, ejaculatory ducts visualization and balloon dilation, microsurgical varicocele repair, testicular prosthesis placement, and others
- ESWT for Peyronie's disease, erectile dysfunction, chronic pelvic pain > 200 treatments performed

- Platelet rich plasma for post-prostatectomy/radiation penile tissue degeneration preparation and use (IRB)
- Transplant surgery and medicine: procurement and donor preparation and surgery
- Penile reimplantation: microsurgical anastomosis, nerve sheets reapproximation, urethroplasty, flaps and grafts planning and management, medical leeches use, complex GU wounds management
- Penile prosthesis placement and management of prosthetic devices mechanical failures and infections
- Penile injection therapy for erectile dysfunction including penile rehab after prostatectomy
- Penile, transrectal, scrotal, and genital ultrasonography both gray and color Doppler (AUA course faculty)
- Peyronie's disease management: injections therapy and microsurgical plaque incision and grafting
- Penile revascularization and embolization of fistulas (percutaneous and trans-glandular)
- Videourodynamics. EMG, and interstim placement
- Endourology, trained in percutaneous access, ESWT for stones
- Internal medicine, and reproductive endocrinology of children and adults
- Management and evaluation of chronic pelvic pain
- New York State Certified medical marijuana prescriber in the State of New York
- Individual and couple sexual therapy pertinent to the practice of sexual medicine in urology

B. CLINICAL TRIALS, LABORATORY, RESEARCH and MANAGEMENT

- NIH ad-hoc reviewer and study sections member
- New York State Department of Health Certificate of Qualification as laboratory director in endocrinology, andrology, microbiology, and genetics
- Department of Urology, WCMC, point-of-care laboratory quality assurance leader and director
- Principal investigator in multiple basic and clinical trials including FDA regulated trials
- Member of Internal Board Review committee
- AUA registered expert witness
- Bioinformatics: DNA and RNA short and long read sequencing, and advanced statistical analysis programmer
- Coding and programming in Python, R, Linux, servers deployment and security
- Bioimaging: expert in advanced MRI/A, CT, microscopy and qualitative and quantitative 2D and 3D image analysis and reconstruction, I developed dynamic MRA cavernosography with radiology department.
- Bioengineering: prototyping, 3D modeling for micro and macro scale, 3D printers design and use, Raspberry, RUMBA, Arduino boards use in IoT and wearable gadgets design; programming of EPROMs /Merlin. I have served as PhD students advisor and students mentor to Cornell University bioengineering program.
- High complexity clinical laboratory management experience > 10 years
- Advanced flowcytometry and cell sorting, cell cultures preparation, immortalization, and preparation
- QuickBooks accounting and small business management
- Men's Health Magazine and Buzzfeed and others medical contributor

AWARDS and HONORS:

- AAP, Section on Urology; 1st Place in Clinical Research Prize Award, San Francisco, 1995
- C.V. Hodges Best Resident Paper, Portland, 1999
- Miley B. Wesson Western Section AUA Award, Anchorage, 2001
- Society for Male Reproduction and Urology Traveling Award, Orlando, 2001
- Scholar in Marine Biological Laboratory (Frontiers in Reproduction), Woods Hole, 2001
- Pfizer Scholars in Urology Award, Portland, 2001
- In-Training Award of American Society for Reproductive Medicine, Philadelphia, 2004
- New Investigator Award, American Society of Andrology, Baltimore, 2004
- Thomas C. Chang Trainee Travel Award, American Society of Andrology, Baltimore, 2004
- Cook Urology Travel Award, American Society of Andrology, Seattle, 2005

- 2nd Place, Best Research, AUA Foundation Research Forum, Chicago, 2009
- Society for Study of Male Reproduction AUA 2009 Research Forum Scholar, Chicago, 2009
- AFUD research grant award, role: mentor, trainee Peter Stahl, 2010-2012
- AUA NYS Best Research, AUA Foundation Research Forum, San Diego, 2013
- New York Academy of Medicine research grant award, role: mentor, trainee Matthew Worsnitzer, 2012-2014
- New York Academy of Medicine research grant award, role: mentor, trainee Christopher Ryan, 2014
- Castle Connolly Regional Top Doctor 2015
- Top Doctors New York Metro Area 2016
- Castle Connolly Regional Top Doctor 2016
- AFUD research grant award, role: mentor, trainee Ryan Flannigan, 2016-2018
- Top Doctors New York Metro Area 2017
- Castle Connolly Regional Top Doctor 2017
- SMSNA research grant award, role: mentor, trainee Ryan Flannigan, 2017
- SMRU research grant award, role: mentor, trainee Ryan Flannigan, 2017
- New York Academy of Medicine research grant award, role: mentor, trainee Russel Hayden, 2018-2019
- American Society of Reproductive Medicine SMRU best research presentation, Salt Lake City, 2017
- AUA annual meeting best poster in male infertility basic research, San Francisco, 2018
- American Society of Reproductive Medicine Star Award 2017 and 2018
- Top Doctors New York Metro Area 2018
- Castle Connolly Regional Top Doctor 2018
- Invited speaker at Endocrine Society Annual Meeting, New Orleans 2019
- Invited speaker at SMRU/AUA Annual Meeting, Chicago 2019
- Top Doctors New York Metro Area 2019
- Castle Connolly Regional Top Doctor 2019

BOARDS, COMMITTEES, and ADVISORY

- CDC/Endocrine Society coalition for testosterone testing/PATH on behalf of AUA Office of Education 2009-present
- AUA office of education ad hoc committee for testosterone testing, Chair, 2009-present
- Member of AUA guideline committee on disorders of ejaculation: 2019-present
- Eli Lilly and Company, advisory board member 2008- 2016
- American Society of Andrology Annual Meeting Program Committee 2012-2013
- American Society of Andrology – member executive committee – 2014-2017
- Antares Advisory Board, 2014 - 2016
- Abbvie Advisory Board, 2012 - 2017
- Bayer Advisory Board, 2014 - present
- Society Assisted Reproductive Technology Research Committee Board Member, 2007-2010
- NIH peer-reviewer *Reproductive and Perinatal Biology* Special Emphasis Panel 2018
- American Society of Andrology Annual Meeting Program Committee 2017-2018
- NIH study section group member May 2019

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS:

- American Urological Association
- American Society for Reproductive Medicine
- American Society of Andrology
- Endocrine Society
- Sexual Medicine Society of North America
- Society for Male Reproduction and Urology

- Society for the Study of Male Reproduction

SPECIAL TRAINING

- NIH, NIDDK Clinical research in Kidney and Urologic Diseases course, Washington, DC, 2004
- Responsible Conduct of Research certificate, IRB, Weill Medical College, NYC, NY, 2004
- Laboratory Safety Course, Rockefeller University, NYC, NY, 2003
- Laboratory Radiation Safety Course for PI, Weill Medical College, NYC, NY, 2003
- Research Integrity Training for Principal Investigators, 2008
- New York State Department of Health certified medical marijuana prescriber, 2019

LICENSURE:

- State of New York, unlimited, current, active, 227386-1 exp: 04/30/2022
- State of Oregon, unlimited, inactive, MD24101
- NPI 1265529333
- DEA certificate, current, BP8010592 exp: 03/31/2020
- CAQH ID 11820991

BOARD CERTIFICATIONS AND FELLOWSHIPS:

- Diplomate American Board of Urology
- Subspecialty fellowship training in Male Infertility and Andrology

NIH FUNDING:

Current:

1R03HD094046 – 01

Grant Title: Isolation of Viable Human Sperm from Failed Microsurgical Testicular Biopsies

Funded Project Period: 9/1/2018-8/31/2020

Role: Principal Investigator

P50HD076210

Grant Title: Role of small RNAs in male infertility. Project II.

Funded Project Period: 4/2014-4//2019 with extension to 4/2020

Role: Principal Investigator

P50HD076210

Grant Title: Role of small RNAs in male infertility, Core C.

Funded Project Period: 4/2014-4//2019

Role: Co-Director, Small RNA pathways in mammalian gametogenesis: Outreach Core C.

Past:

R01HD074542

Grant Title: Regulation of stem spermatogonia in the mature testis. Wright, William

Project Period: 4/1/2012-3/31/2017

Role: Co-Investigator

5T35EB006732

Grant Title: Clinical Summer Immersion for Biomedical Engineering PhD Students.

PI: Frayer, William Webster; PRINCE, MARTIN R; Wang, Yi (Contact)

Project Period: 09/30/2006-08/31/2016

Role: Key Personnel

P50HD078641

Grant Title: Genomics of Spermatogenic Impairment

Project Period: 7/1/2014- 6/30/2019

Role: Key Personnel

AFUD/NYAM/SMSNA/SMRU GRANTS and AWARDS FOR TRAINEES IN MY LAB:

Funding agency: AUA Care Foundation

Grant title: MiRNA 202-5p as a non-hormonal contraceptive: a preclinical study.

Trainee: Nahid Punjani, MD, MPH

Project period: 7/1/2019 to 6/30/2020

Role: Mentor

Funding agency: New York Academy of Medicine /

The Ferdinand C. Valentine Fellowship Award for Research in Urology

Grant title: Role of long non-coding RNAs in male infertility

Trainee: Russel Hayden, MD

Project period: 7/1/2018 to 6/30/2019

Role: Mentor

Funding agency: AUA Care Foundation

Grant title: Evaluation of Role of miRNA202-5p in Regulation of Spermatogenesis Using Lecithin:Retinol Acyltransferase (LRAT) Knockout Model.

Trainee: Ryan Flannigan, MD

Project period: 7/1/2016 to 6/30/2018

Role: Mentor

Funding agency: Sexual Medicine Society of North America

Grant title: fMRI evaluation of delayed orgasm & ejaculation.

Trainee: Ryan Flannigan, MD

Project period: 7/1/2017 to 6/30/2018

Role: Mentor

Funding agency: NIH

Award: NIH Trainee Travel Award

Project title: Abnormal Expression, Localization, And Trafficking Of Micro-Rnas In Men With Nonobstructive Azoospermia

Trainee: Ryan Flannigan, MD

Project period: 2018

Role: Mentor

Funding agency: Society for the Study of Male Reproduction.

Award: Arnold Belker Traveling Fellow

Project title: Pilot Study Results Using Fluorescence Activated Cell Sorting Of Spermatozoa From Testis Tissue: A Novel Method For Sperm Isolation After TESE.

Trainee: Ryan Flannigan, MD

Project period: 2017

Role: Mentor

Funding agency: American Society of Reproductive Medicine

Award: Corporate Member Council In- training Travel Grant.

Project title: Large scale miRNA and piRNA sequencing analysis of testis biopsies from fertile an infertile men reveals differences between miRNA and piRNA expression during spermatogenesis cycle.

Trainee: Ryan Flannigan, MD

Project period: 2017

Role: Mentor

Funding agency: NIH

Award: NIH Trainee Travel Award

Project title: Loss Of Translational Suppression Of Prm1/2 Via Ybx2 Is A Culprit Of Early And Late Maturation Arrest In Humans.

Trainee: Ryan Flannigan, MD

Project period: 2017

Role: Mentor

Funding agency: New York Academy of Medicine /

The Ferdinand C. Valentine Fellowship Award for Research in Urology

Grant title: The Role of Ubiquitin Specific Protease 26 (USP26) in Testicular Function and Male Infertility

Trainee: Matthew Wosnitzer, MD

Project period: 7/1/2013 to 6/30/2014

Role: Mentor

Funding agency: New York Academy of Medicine /

The Ferdinand C. Valentine Fellowship Award for Research in Urology

Grant title: Investigation of the Pathophysiology of Leydig Cell Dysfunction and Impaired Spermatogenesis Using a Novel Mouse Varicocele Model

Trainee: Howard H. Kim, MD

Project period: 7/1/2007 to 6/30/2008

Role: Mentor

Funding agency: AUA Care Foundation

Grant title: Role of Y chromosome genes in regulation of spermatogenesis

Trainee: Peter Stahl, MD

Project period: 7/1/2010 to 6/30/2012

Role: PI/Mentor

PRIVATE FOUNDATIONS GRANTS AND SUPPORT:

Grant Title: Male Infertility and Andrology Research

Founding Agency: Robert Dow Foundation

Amount: \$100,000 annually

Project Period: 10/30/2011- present, annually renewed

Role: Principal Investigator

Grant Title: Klinefelter Syndrome – improving care through translational research

Founding Agency: Irena and Howard Laks-McLean

Amount: \$30,000

Project Period: 10/30/2010 - present, annually renewed

Role: Principal Investigator

Grant Title: Isolation of sperm from ejaculate of men with NOA

Founding Agency: A-Time

Amount: \$100,000

Project Period: 10/30/2018 - present, annually renewed

Role: Principal Investigator

CLINICAL TRIALS GRANTS AND FUNDING:

1. TSAB clinical trial: I5E-MC-TSAB: A Randomized, Double-Blind, Placebo-Controlled, Proof-of-Concept Study to

Explore the Impact of Testosterone Solution 2% on Symptoms of Ejaculatory Dysfunction in Men with Testosterone Deficiency

Sponsor: Eli Lilly and Company

Role: Principal investigator

Period: 9/15/2011-3/15/2015

2. LVIR clinical trial: A Randomized, Double Blind, Placebo-controlled Study to Evaluate the Effect of Tadalafil Once Daily for 8 Weeks on Prostatic Blood Flow and Perfusion Parameters in Men with Signs and Symptoms of Benign Prostatic Hyperplasia

Sponsor: Eli Lilly and Company

Role: Principal investigator

Period: 9/15/2010 -12/31/2015

3. ROCHE clinical trial: A multicenter prospective cohort study to investigate if ganciclovir significantly affects spermatogenesis in adult male renal transplant recipients receiving up to 200 days valganciclovir vs. concurrent untreated matched controls.

Sponsor: Roche

Role: Principal investigator

Period: 8/15/2011 - 12/30/2017

PATENTS:

1. BestSpermSelect - A Novel Technique of Diagnostic and Therapeutic Human and Animal Sperm Selection Based on Early Apoptotic Markers US 13/124,246 pending

2. Force-measuring Silicon Microprobe and Uses Thereof. US 8,197,418 issued

3. HSFY mRNA Level Predicts Success of Sperm Retrieval in Men with Nonobstructive Azoospermia 61/454,283; PCT/US2012/029239 pending

GRADUATE TEACHING AND EDUCATION ACTIVITIES:

As research director of fellowship program I am in charge of preparing and updating training curriculum for the fellows, residents and students. I meet with trainees every Tuesday for the lab meeting and also individually.

I also teach and supervise endocrinology fellows (Department of medicine) who rotate through my practice to learn about male reproductive endocrinology.

1. Male Infertility and Andrology Fellowship Didactic Lectures and Research Supervision – Role: Course director
 Number of lectures: 75 /year
 Audience: Residents/Fellows
 Location: WCMC
 Frequency/Contact Hours: weekly: 2 hours group lecture / 10 h individual supervision
 Number of Learners: 6
2. Basic Evaluation of Male Infertility - Lectures for CRMI Fellows -
 Role: Lecturer
 Number of lectures: 3 a year
 Audience: Residents/Fellows
 Frequency/Contact Hours: 4
 Number of Learners: 9
3. Urology Grand Rounds Lectures for Urology Residents
 Role: Lecturer
 Number of lectures: 3 a year
 Audience: Residents/Fellows
 Location: WCMC
 Frequency/Contact Hours: 3
 Number of Learners: 20
4. Reprod BOD - Role: Lecturer
 Number of lectures: 1 a year
 Audience: Medical Students
 Location: WCMC
 Frequency/Contact Hours: 1
 Number of Learners: 60
5. Reprod HID
 Role: Lecturer
 Number of lectures: 1 a year
 Audience: Medical Students
 Location: WCMC
 Frequency/Contact Hours: 1
 Number of Learners: 60

CONTRIBUTIONS TO UROLOGY AND ANDROLOGY:

H-index = 26, i10-index 50, total number my work was cited = 2,276 as of April of 2019

1. *Advancements in Evaluation and management of male infertility: my key contributions to male infertility stem from my work on genetics of male infertility and sperm DNA damage. My lab was first to show that mutations in gene USP26 are associated with male infertility. We showed that estradiol signaling in human testis is carried via g protein coupled receptor GPER-1 thus changing a paradigm of E2 signaling. Together with my fellows and collaborators I showed the importance of Y chromosome testing in evaluation of azoospermia. My lab is known for studying role of sperm DNA damage and we showed that some of SSRIs can affect male fertility. I co-led 5 year-long multicenter FDA directed study on effects of ganciclovir on sperm parameters in recipients of renal*

transplantation (in press). Overall my publications about etiology, evaluation, and treatment of male infertility, excluding publications focused on Klinefelter syndrome and varicocele, were cited 648 times

2. Klinefelter syndrome in adolescents and adults: I advanced care of adolescents and men with Klinefelter syndrome by promoting early detection of Klinefelter syndrome, early preservation of fertility, patient centered hormonal manipulation and multidisciplinary care. The paradigm of KS management I developed has been replicated in centers around the world. I have very large population of patients with KS in USA. My publications on Klinefelter syndrome were cited over 340 times

3. Effects of large adolescent's varicocele on reproduction. I showed that delay in surgical repair of large adolescent varicocele leads to a decline in semen parameters and progressive testicular atrophy. My publications on adolescent varicocele are referenced in both AUA and ASRM guidelines on the management of male infertility. My work on varicocele was cited more than 300 times.

4. Pathophysiology and management of postprostatectomy erectile and sexual dysfunction. I performed experiments showing that cavernosal nerve injury leads to activation of apoptosis which can be reversed by use sildenafil in animal model (collaboration with MSK group). My publications on postprostatectomy sexual dysfunction and utilization of penile prosthesis were cited in over 200 manuscripts.

5. Neurobiology of anejaculation and delayed ejaculation: I have developed objective methods to evaluate disorders of ejaculation and orgasm (DEOs) using fMRI of brain, ultrasound, and measurement of neurotransmitters in peripheral blood.. I wrote an AUA update on disorders of ejaculation. My publications on the effects of tadalafil and testosterone treatment on DEOs were highlighted by the editor of the British Journal of Urology and cited over 100 times. I worked with Dr. Pozor, DVM from the University of Florida to diagnose and treat anejaculation in the champion stallion.

6. National harmonization of laboratory testing in endocrinology and urology. For over ten years I have represented the AUA Office of Education as a key and founding member of PATH: intergovernmental and cross-societal group to advance laboratory testing standards in the USA. I testified in front of the USA Congress on the importance of hormonal testing harmonization and standardization. I was selected to speak together with the director of the CDC as one of very few urologists worldwide certified as a clinical laboratory director in andrology, endocrinology, genetics, and GU microbiology. I prepared white paper on laboratory testing of hypogonadism for AUA office of education. My work on diagnosis and management of hypogonadism was cited 91 times.

7. Penile transplantation program: I established IRB and New York Organ Procurement Organization (LiveOnNY) program of procurement of organ donor phallus for clinical research in anticipation of establishing active penile transplantation program. We published first ever manuscript on attitudes of medical professionals toward penile transplantation and perception of what contributes to men's sense of gender. I have prepared NIH R21 grant application to further study social, psychological, and ethical issues related to penile transplant.

8. Isolation of sperm using flow cytometry: I developed a novel, reproducible method to identify and isolate viable sperm when no other methods like microsurgical testicular sperm extraction can find a sperm thus giving hope to infertile couples for whom there were no other options of having their own children. This break-through research lead to receiving NIH grant on first attempt in recognition of practice altering importance of my work.

TEACHING AND MENTORING EXPERIENCE:

- Trained and mentored over 50 trainees over the last 17 years
- Prepared research projects, grants applications, secured funding for trainees. AUA Care Foundation, New York Academy of Medicine, Sexual Medicine Society of North America, Society for Study of Male

Reproduction and NIH provided grants and awards for most of fellow in andrology and male infertility who trained under my direct supervision in my lab.

- *Prepared curriculum for fellows and residents in areas of andrology, infertility, and sexual medicine*
- *Trained every urology residents at WCM in microsurgery techniques in operating room and the microsurgical training laboratory*
- *Trained endocrinology fellows (medicine) who rotated through my practice*
- *Raised funds and effectively run summer research program for high school seniors and undergrads*

ADMINISTRATIVE AND MANAGEMENT EXPERIENCE:

- *Responsible for daily operations of busy high complexity laboratory in capacity of laboratory director. Duties: preparation and oversight of standard operating procedures, compliance with CLIA, New York State Department of Health and local rules and regulations, review and signing off on performed billable assays, quality assurance, good laboratory practices standards compliance, billing oversight, development of new assays and validation techniques.*
- *I have run male infertility and andrology fellowship selection and admission process.*

PUBLICATIONS

1. Flannigan R, Heier L, Voss H, Chazen JL, Paduch DA.: “Functional Magnetic Resonance Imaging Detects Preliminary Between-Group Differences in Neural Activation Among Men with Delayed Orgasm Compared to Normal Controls.” Accepted for publication in Journal of Sexual Medicine 5/6/2019
2. Paduch DA, Hilz S, Grimson A, Schlegel PNS, Jedlicka AE, Wright WW: “Aberrant Gene Expression by Sertoli cells in Infertile Men with Sertoli Cell Only Syndrome”. Accepted for publication in PLOS ONE, 5/1/2019
3. Singh P, Patel RK, Palmer N, Grenier JK, Paduch DA, Kaldis P, et al. “CDK2 kinase activity is a regulator of male germ cell fate.” bioRxiv. 2019:595223.
4. Najari B, Flannigan R, Hobgood J, Paduch DA.: “Attitudes Toward Penile Transplantation Among Urologists and Health Professionals.” Sex Med 2018; Epub September 2018
5. Flannigan R, Mielnik A, Robinson BD, Khani F, Bolyakov A, Schlegel PN, et al.” YBX2 Dysregulation in Maturation Arrest NOA YBX2 Dysregulation is a Potential Cause for Late Maturation Arrest in Men with Non-Obstructive Azoospermia. bioRxiv”. 2018:364968.
6. Forbes CM, Flannigan R, Paduch DA. “Perineal Ultrasound: a Review in the Context of Ejaculatory Dysfunction.” Sex Med Rev 2018;6:419-428.
7. Flannigan R, Patel P, Paduch DA. “Klinefelter Syndrome. The Effects of Early Androgen Therapy on Competence and Behavioral Phenotype.” Sex Med Rev 2018;6:595-606.
8. Maggi M, Heiselman D, Knorr J, Iyengar S, Paduch DA, Donatucci CF. Impact of Testosterone Solution 2% on Ejaculatory Dysfunction in Hypogonadal Men. J Sex Med. 2016;13(8):1220-6.

9. Najari BB, Introna L, Paduch DA. Improvements in Patient-reported Sexual Function After Microsurgical Varicocelectomy. *Urology*. 2017;110:104-9.
10. Paduch, D. A. and B. Najari (2017). "Author Reply." *Urology* 110: 109.
11. Singh D, Paduch DA, Schlegel PN, Orwig KE, Mielnik A, Bolyakov A, Wright WW.: (2017). "The production of glial cell line-derived neurotrophic factor by human sertoli cells is substantially reduced in sertoli cell-only testes." *Hum Reprod* 32(5): 1108-1117.
12. Paduch DA, Polzer P, Morgentaler A, Donatucci C, Ni X, Patel Ab, Basaria S. Response And Rebuttal To Editorial Comment On: Clinical And Demographic Correlates Of Ejaculatory Dysfunctions Other Than Premature Ejaculation: A Prospective, Observational Study. *J Sex Med*. 2015 Dec; 12(12):2289-90.
13. Mehta, A, Alexander B, Schlegel PN, Paduch D: Higher Pregnancy Rates Using Testicular Sperm In Men With Severe Oligospermia. *Fertility And Sterility*. 2015 Dec; 104(6): 1382-7.
14. Paduch DA, Polzer Pk, Ni X, Basaria S. Testosterone Replacement In Androgen-Deficient Men With Ejaculatory Dysfunction: A Randomized Controlled Trial. *J Clin Endocrinol Metab*. 2015 Aug;100(8):2956-62.
15. Paduch Da. Editorial Comment. *Urology*. 2014 Dec;84(6):1340-1.
16. Najari Bb, Robinson Bd, Paget Sa, Paduch DA. Clinical, Radiographic, And Pathologic Description Of IgG4-Related Perivascular Fibrosis: A Previously Undescribed Etiology Of Chronic Orchialgia. *Urology*. 2014 Oct;84(4):748-50.
17. Dabaja, A. A., Mielnik, A., Robinson, B. D., Wosnitzer, M. S., Schlegel, P. N., & Paduch, D. A. (2015). Possible Germ Cell-Sertoli Cell Interactions Are Critical For Establishing Appropriate Expression Levels For The Sertoli Cell-Specific MicroRNA, Mir-202-5p, In Human Testis. *Basic And Clinical Andrology*, 25(1), 2.
18. Lee, D. J., Najari, B. B., Davison, W. L., Al Awamlh, B. A. H., Zhao, F., Paduch, D. A., ... & Lee, R. K. (2015). Trends In The Utilization Of Penile Prostheses In The Treatment Of Erectile Dysfunction In The United States. *The Journal Of Sexual Medicine*. 2015 Jul; 12(7): 1638-1645.
19. Paduch, D. A., Polzer, P. K., Ni X., Basaria S; Testosterone Replacement In Androgen-Deficient Men With Ejaculatory Dysfunction: A Randomized Controlled Trial, *The Journal Of Clinical Endocrinology & Metabolism*, Volume 100, Issue 8, 1 August 2015, Pages 2956–2962
20. Stahl Pj, Cogan C, Mehta A, Bolyakov A, Paduch DA, Goldstein M. Concordance Among Sperm Deoxyribonucleic Acid Integrity Assays And Semen Parameters. *Fertility And Sterility*. 2015 July; 12(1): 56-61.
21. Dabaja Aa, Bryson Cf, Schlegel Pn, Paduch DA. The Effect Of Hypogonadism And Testosterone-Enhancing Therapy On Alkaline Phosphatase And Bone Mineral Density. *BJU International*. 2014 July; 115(3): 480-485.
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BOOK CHAPTERS:

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INVITED TALKS, LECTURESHIPS AND VISITING PROFESSORSHIPS

New York, NY	The US Too! Support Group New York, NY	Testosterone and Prostate Cancer	5/2006
New York, NY	KS&A NY Metropolitan Support Group	Early management of Klinefelter syndrome	5/6/2006
New York, NY	2006 AFA National Fertility and Adoption Conference	It's in the Male: Part 2	5/7/2006
St. Louis, MO	AAKSIS 7 th National Conference	Developments in Hormonal Manipulation During Childhood, Adolescence and Adulthood	7/20/2006
Philadelphia, PA	2006 XXY Conference	Molecular biology and clinical aspects of testicular failure in adolescents with 47,XXY and 48,XXYY	10/13/2006
New York, NY	Friday Fellow Lecture- Cornell University	Disorders of sexual differentiation	10/27/2006
New York, NY	Grand Rounds- Cornell University	Testosterone Replacement – truth and myths.	12/18/2006
New York, NY	Andrology Meeting- Cornell University	From Race to Halo: Interpretation of Laboratory Results in Andrology	2/13/2007
New York, NY	Family Matters: National Fertility and Adoption Conference	It's Not Only About the Child, It's Also About the Father; How Evaluation of Infertile Men Can Improve Men's Health	4/29/2007
Chicago, IL	3 rd Meeting of Midwest Reproductive Symposium	Male Infertility Update – From the Lab Bench to Your Practice	6/9/2007
Chicago, IL	AAKSIS National Conference	New insight in early diagnosis of Klinefelter syndrome	6/22/2007

Salzburg, Austria	ESU Masterclass Seminar	Invited Faculty Chronic pelvic pain syndrome in men Testosterone replacement therapy in 21 st Century Postprostatectomy sexual dysfunction	7/15/2007-7/21/2007
New York, NY	Annual Meeting – Andrological Section of Czech Urological Society	Screening for Y Chromosome Microdeletion, Clinical Relevance and Critical Issues in Interpretation and Methodology	9/14/2007
New York, NY	Annual Meeting – Andrological Section of Czech Urological Society	Demystifying Testosterone Replacement Therapy	9/15/2007
Washington, D.C.	ASRM 2007	Moderator, Male Reproduction and Urology Abstracts	10/15/2007
New York, NY	KS&A Scientific Meeting	New Directions in Translational Research – Overview of Current and Future Basic Science Projects and Magnetic Resonance Spectrometry Study in Assessment of Testicular Function	10/19/2007
New York, NY	NY Chapter Klinefelter Parents Meeting	Testosterone replacement therapy in boys and adolescents with sex chromosome aberrations.	10/20/2007
New York, NY	Columbia University, Department of Pediatric Endocrinology	Molecular basis of testicular dysfunction in children.	3/2008
Ontario on the Lake, Ontario, Canada	10th International Conference on Long-Term Complications of Treatment of Children and Adolescents for Cancer	Male fertility preservation – facilities and techniques.	6/7/2008

Minneapolis/St. Paul	Annual meeting of American Association for Klinefelter Syndrome Information and Support	Update on evaluation, management and long term care of children and adults with Klinefelter syndrome.	
Prague, Czech Republic	Annual Meeting of the Andrological Section of the Czech Urological Society	Sexual dysfunction in men – update on pathophysiology, imaging, and management techniques of orgasmic and ejaculatory dysfunction. Andrology in 21 st Century – making positive impact on men's health	6/12/2008-6/16/2008
Denver, Colorado	Annual meeting of Klinefelter Syndrome and Associates	New concepts in fertility preservation in adolescents with Klinefelter syndrome Sexual function and pubertal issues in adolescents with Klinefelter syndrome.	8/10-11/2008
New York, NY	Endocrinological Grand Rounds	Klinefelter syndrome – medical management.	9/1/2008
Berlin, Germany	American Urological Association New York Section Invited speaker	Andropause	10/03/2008
San Francisco, CA	American Society of Reproductive Medicine annual meeting Society for the Study of Male Reproduction Invited Special Seminar	Klinefelter Syndrome: Novel Scientific and Clinical Insights	11/10/2008

Springfield, MA	Endocrinology Ground Rounds at Baystate Medical Center	Male Infertility and Hypogonadism	2/10/2009
Brooklyn, NY	Albert Einstein Medical College, Depart of Pediatric Urology	New imaging modalities in evaluation of testicular function and development in children.	3/9/2009
Chicago, IL	American Urological Association Meeting Invited speaker	Treatment of Low Testosterone in the Infertile Hypogonadal Male	4/28/2009
Mansoura, Egypt	Masoura University Androlgy Meeting Invited Speaker	Genetics of male infertility.	10/13-16/2009
Springfield, CT	CT Urological Society Guest Speaker	Office Andrology in Urological Practice Metabolic Syndrome and Hypogonadism	3/21/2010
New Brunswick, NJ	Pediatric Endocrinology Grand Rounds	New Developments in Management of Adolescents with Klinefelter Syndrome	4/1/2010
San Francisco, CA	American Urological Association Invited Faculty	Postgraduate course on management of hypogonadism.	6/2/2010
San Francisco, CA	American Urological Association Invited Plenary Speaker	New Developments in Infertility at 2010 Annual Meeting	6/3/2010
Ann Arbor, MI	University of Michigan Lapides Lecturer at Duckett Memorial Lectureship	Varicocele, reproduction, and metabolic syndrome - Men's Health in 2010.	7/23/2010
New York, NY	Center for Male Reproduction and Infertility lecture series	Sperm chromatin structure – technical and clinical aspects.	7/23/2010
Chicago, IL	Center for Scientific Review, National Institute of Health. Ad-hoc Section Reviewer	Cellular Molecular and Integrative Reproduction Study	6/2/11

Annapolis, MD	The Atypical Learner Conference	200 XXY Boys on Hormonal Treatment	4/10/2011
Washington, D.C.	AUA Annual Meeting 2011	Androgen Receptor	5/15/2012
Cape Cod, MA	Frontiers in Reproduction	Neurobiology of sexual response in male – from birds to humans	6/11/2011
Rosemont, IL	Eli Lilly & Co.	Protocol I5E-MC-TSAB Initial Site Study Training Meeting	7/15/2011
Paris, France	New York Section AUA Annual Meeting	Male Hypogonadism: Changing Paradigms of Management and Treatment	9/13/2011
Paris, France	New York Section AUA Annual Meeting	Diagnosis and Management of HPV	9/13/2011
Vienna, Austria	8 th Men's World Congress	Chair Master Lecture on Breakthroughs in the Management of ED	10/04/2011
Vienna, Austria	8 th Men's World Congress	Chair ISMH Debate: Testosterone and Sexual Function	10/04/2011
Vienna, Austria	8 th Men's World Congress	Chair Moderated Poster Presentations	10/04/2011
Vienna, Austria	8 th Men's World Congress	News about the Management of HPV	10/04/2011
Vienna, Austria	8 th Men's World Congress	Effects of Metabolic Syndrome on Erectile Dysfunction	10/05/2011
Orlando, FL	ASRM 67 th Annual Meeting	Assisted Reproductive Technology RTW02. Sperm DNA Fragmentation Testing	10/19/2011
Las Vegas, NV	Sexual Medicine Society of North America	Safety and Efficacy of Intracavernosal Injection Therapy with Concomitant Daily or as Needed Tadalafil in Men With Post-Prostatectomy	11/11/2011

		and Severe Erectile Dysfunction	
Milan, Italy	ESSM Annual Meeting 2011	Improving ejaculatory or orgasmic dysfunction after 12 wks as-needed tadalafil treatment significantly improves intercourse and overall sexual satisfaction in men with erectile dysfunction: Post-hoc analyses of 17 placebo-controlled studies	12/02/2011
Milan, Italy	ESSM Annual Meeting 2011	66% of men with severe ejaculatory or orgasmic dysfunction report improved ejaculatory or orgasmic function after 12 wks as-needed tadalafil treatment: Post-hoc analyses of 17 placebo-controlled studies	12/02/2011
New York, NY	Grand Rounds at NYU	Comprehensive Management of Adolescents and Men with Klinefelter Syndrome	3/30/2012
Annapolis, MD	The Atypical Learner Conference	Update on early management of Klinefelter Syndrome	4/15/2012
Ogunquit, ME	New England Fertility Society Annual Meeting 2012	The Effect of Aging on Male Infertility	04/28/2012
New York, NY	Grand Rounds – Cornell University	5-Alpha Reductase Inhibitors –Molecular Basis and Clinical Implications of Delayed Persistent Sexual Dysfunction and Depression	06/25/2012
Miami, FL	CEU Endocrine Society 2012	Male Hypogonadism	09/14/2012
Miami, FL	CEU Endocrine Society 2012	Meet-The Professor: Treatment of Hypogonadism	09/14/2012

San Diego, CA	ASRM 2012	Male Reproduction and Urology: Research	10/22/2012
San Diego, CA	ASRM 2012	HPV Vaccination and Management for the Male	10/23/2012
San Diego, CA	ASRM 2012	TUNEL Assay on Swim Up Samples Aids in Predicting IVF Outcomes	10/24/2012
Auckland, New Zealand	FSA 2012	Varicocele and other Surgical Solutions to Restore Natural Fertility – What is new?	10/27/2012
Auckland, New Zealand	FSA 2012	Modern Management of Klinefelter Syndrome	10/29/2012
Auckland, New Zealand	FSA 2012	Male Sexual Dysfunction	10/30/2012
Auckland, New Zealand	FSA 2012	The Oligospermic Male – Is it Just a Matter of ICSI?	10/31/2012
New York, NY	2 nd Interactive Eli Lilly & WCMC Men's Health Symposium	Sexual Dysfunction	11/07/2012
New York, NY	2 nd Interactive Eli Lilly & WCMC Men's Health Symposium	Ejaculatory Dysfunction	11/08/2012
Elizabeth, NJ	CME Internal Medicine Lecture	Male Hypogonadism and Testosterone Replacement Therapy	2/21/2013
Seville, Spain	5 th International IVI Congress	Clinical usefulness of sperm DNA assessment	4/6/2013
Vienna, Austria	Annual Andrology Meeting Austrian Urological Society	Klinefelter syndrome – modern management	05/12/2013
San Antonio, TX	American Society of Andrology invited speaker	Prolactin in Men's Health and Disease	4/15/201
Salzburg, Austria	ESU master class in Urology	Ejaculatory Dysfunction	7/08/2013
Salzburg, Austria	ESU master class in Urology	Sexually transmitted disease – 2013 update	7/09/2013

Islip, NJ	NJ-AACE	Performance Enhancing Drug Abuse in Males: How to deal with the endocrinological, reproductive, and metabolic side effects	11/02/2013
New York, NY	The Pituitary Gland in Health and Disease Conference	Sexual Function and Adolescent Development	11/08/2013
Philadelphia, PA	Philadelphia Endocrine Society Lecture Series Invited Speaker	Update on Klinefelter Syndrome	11/08/2013
Philadelphia, PA	Visiting Lecturer CHOP/University of Pennsylvania	Klinefelter syndrome management – from bench to bedside	1/08/2014
New York, NY	WCMC Medical Students 2 nd year lecture	Male reproduction	2/05/2014
New York, NY	WCMC Reproductive Endocrinology Lecturship	Evaluation of sexual function in infertile couple	2/20/2014
New York, NY	NYU Langone Medical Center – Division of Endocrinology Lecturship	Emerging concepts in link between DM and hypogonadism	2/21/2014
Baltimore, MA	KSA Annual Meeting	Decade of experience with managing adolescents with Klinefelter syndrome	7/21/2015
Lisbon, Portugal	New York Section AUA Annual Meeting	Small RNA in Diagnosis and Management of Prostate Cancer	9/7/2015
Lisbon, Portugal	New York Section AUA Annual Meeting	Testosterone Replacement Therapy Under Regulatory Scrutiny- What the Data Shows	9/10/2015
Lisbon, Portugal	New York Section AUA Annual Meeting	Erectile Dysfunction and Varicocele- Is Varicocelelectomy Better Than the Blue Pill?	9/10/2015
Salt Lake City, UT	American Society of Andrology Meeting Invited Speaker	Estrogens, the T/E Ratio, SHBG & Cardiovascular Disease – From Population Genetic to Gender Epidemiology	4/21/2015
New Orleans, LA	American Society of Andrology Meeting Invited Speaker	Debate: Fertility Preservation in Adolescent Klinefelter Patients: the Case (or not) for Early Intervention.	4/1/2016

New Orleans, LA	American Society of Andrology Invited Speaker Annual Trainee Directed Mini-Symposium: “Eyes Wide Open: Understanding the Ins and Outs of Publishing”	Publish, Don’t Perish Preparing a High-Impact Manuscript.	4/2/2016
Orlando, FL	American Association of Clinical Endocrinologists Invited Speaker	Diagnosis and Management of Steroids Abuse	5/25/2016
Philadelphia, PA	The Philadelphia Endocrine Society Series Invited Speaker	Diagnosis and Management of Steroids Abuse	9/14/2016
Bilbao, Portugal	International IVI Congress	Debate Iii: Should We Ask For More Than Just A Basic Sperm Analysis To Evaluate The Male?	5/11/2017
Portland, OR	4th Annual Trainee-Directed Mini-Symposium Invited Speaker	Pushing the Boundaries: Ethics in Human Gene Editing.	4/23/2018
Denver, CO	American Society of Reproductive Medicine Meeting – Session Chair	Sperm Biology	10/9/2018
New York, NY	2nd Annual Weill Cornell Medicine Pituitary Symposium: Pituitary Disorders Across the Age Spectrum	Hormonal consequences of pituitary disorders.	10/19/2018
New Orleans, LA	Endocrine Society Annual Meeting. Invited speak	Fertility preservation in adolescents with Klinefelter syndrome	3/23/2019
Chicago, IL	AUA/SSMR invited speaker	Isolating Sperm from MT/Sperm Sorting: Clinical Applications	5/5/2019

MEDIA PRESENCE:

TV APPEARANCES:

Featured in opening episode of season II of NY MED on ABC 6/26/2014

VIDEO PRESENTATIONS INTERVIEWS and INVITED COMENTARIES

<https://www.youtube.com/watch?v=dEK1lPEym4k>

<http://www.bjuinternational.com/videos/effect-hypogonadism-testosterone-enhancing-therapy-alkaline-phosphatase-bone-mineral-density-2/>

<http://www.bjuinternational.com/videos/video-dr-paduchs-commentary-on-tadalafil-and-ejaculatory-dysfunction/>

<http://www.youtube.com/watch?v=7GaID96XWPw>

<http://www.youtube.com/watch?v=Nyt2qcfowIQ>

WEILL CORNELL MEDICAL COLLEGE PRESS RELEASES ABOUT MY WORK :

<http://weill.cornell.edu/news/news/2015/03/alkaline-phosphatase-determined-to-show-success-of-testosterone-therapy-on-bone-mineral-density.html>

<http://weill.cornell.edu/news/pr/2013/01/erectile-dysfunction-drug-also-helps-men-ejaculate-and-orgasm.html>

<http://weill.cornell.edu/news/pr/2014/03/study-calls-for-standardization-in-measuring-testosterone-levels.html>

<http://weill.cornell.edu/news/pr/2011/08/when-erectile-dysfunction-isnt-the-whole-story-majority-of-men-with-ed-have-other-unaddressed-sexual.html>

<http://weill.cornell.edu/news/news/2012/10/lifetime-of-service-endures-in-new-summer-research-program.html>

<http://weill.cornell.edu/news/pr/2007/12/physician-scientists-seek-solutions-to-reproductive-problems-related-to-chromosomal-variations.html>

PRESS WRITE UPS AND EDITORIALS (selected)

<https://www.dailystar.co.uk/love-sex/684717/Penis-size-average-gets-smaller-cold-weather-shrinking-older>

<https://www.self.com/story/penis-stickers-are-not-effective-birth-control>

<https://www.menshealth.com/health/a19548296/what-is-male-infertility/>

<http://www.bjuinternational.com/bjui-blog/editorial-mark-alkaline-phosphatase-surrogate-bone-density-hypogonadal-men/>

<http://www.cnn.com/2015/06/23/health/penile-implants-erectile-dysfunction/>

<http://www.buzzfeed.com/caseygueren/clean-your-peen> : TOP POST OVER 1 million views

<http://www.buzzfeed.com/caseygueren/how-to-not-break-your-penis>

<http://www.buzzfeed.com/caseygueren/missing-boner>

<https://www.yahoo.com/health/is-sex-with-a-circumcised-man-different-104252704143.html>

<http://abcnews.go.com/blogs/health/2014/07/03/ny-med-doc-recalls-moms-reaction-to-sexual-medicine-specialty/>

<http://www.menshealth.com/health/4-sex-questions-you-should-ask-your-doctor>

<http://www.menshealth.com/mhlists/healthiest-year/improve-sexual-health.php>

<http://www.menshealth.com/sex-women/blue-balls>

<http://urologytimes.modernmedicine.com/urology-times/news/blood-test-poor-diagnostic-tool-hypogonadism>

<http://www.auanet.org/publications/hpbrief/view.cfm?i=2096&a=4339>

<http://www.menshealth.com/mhlists/healthiest-year/improve-sexual-health.php>

http://articles.orlandosentinel.com/2014-04-06/health/os-low-testosterone-therapy-20140406_1_low-t-clinical-endocrinology-and-metabolism-central-floridians

<http://jamaica-gleaner.com/gleaner/20140702/health/health3.html>

<http://www.details.com/blogs/daily-details/2013/07/health-myth-can-you-really-up-your-manhood.html>

http://www.nbcnews.com/id/44258474/ns/health-mens_health/t/mens-sex-problems-go-beyond-erectile-dysfunction/#.UtGYOmRDv98

http://www.nbcnews.com/id/44258474/ns/health-mens_health/-_U9f7_EiC-R0

<http://healthyliving.msn.com/health-wellness/men/sex/the-male-bad-in-bed-list>

<http://health.usnews.com/health-news/news/articles/2013/01/30/impotence-drug-cialis-might-have-other-sexual-benefits-study>

<http://www.sciencedaily.com/releases/2013/01/130130083011.htm>

http://articles.philly.com/2013-02-12/entertainment/37041408_1_erectile-ejaculation-sexual-problems

<http://urologytimes.modernmedicine.com/urology-times/news/user-defined-tags/darius-paduch/pde-5-inhibitor-may-improve-ejaculatory-function>

<http://www.everydayhealth.com/low-testosterone/how-to-get-your-mans-low-t-checked.aspx>

http://myfloridaurology.com/blog/297/Erectile_Dysfunction_And_Inability_To_Orgasm.cfm